

SEQUENCE LISTING

(1) GENERAL INFORMATION:

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(i) APPLICANT: Smith, Derek D.  
Saha, Shankar  
Abel, Peter W.

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(ii) TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR  
SUPERFAMILY AND METHODS OF USE

(iii) NUMBER OF SEQUENCES: 23

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(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Mueting, Raasch & Gebhardt, P.A.  
(B) STREET: 119 North Fourth Street  
(C) CITY: Minneapolis  
(D) STATE: MN  
(E) COUNTRY: USA  
(F) ZIP: 55401

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(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

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(vi) CURRENT APPLICATION DATA:

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(A) APPLICATION NUMBER: US Not Assigned  
(B) FILING DATE: 30-APR-1998  
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: McCormack, Myra H  
(B) REGISTRATION NUMBER: 36,602  
(C) REFERENCE/DOCKET NUMBER: 180.00020101

5 (ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 612/305-1220  
(B) TELEFAX: 612/305-1228

10 (2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 29 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Thr His Arg Leu Ala Gly Leu Leu Ser Arg Ser Gly Gly Met Val Lys  
1 5 10 15

Ser Asn Phe Val Pro Thr Asn Val Gly Ser Lys Ala Phe  
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(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 30 amino acids

(B) TYPE: amino acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

5 (ii) MOLECULE TYPE: peptide

10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Thr	His	Arg	Leu	Ala	Gly	Leu	Leu	Ser	Arg	Ser	Gly	Gly	Met	Val	Lys
1				5				10					15		

Ser	Asn	Phe	Val	Val	Pro	Thr	Asn	Val	Gly	Ser	Lys	Ala	Phe
			20				25				30		

(2) INFORMATION FOR SEQ ID NO:3:

20 (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 37 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

25 (ii) MOLECULE TYPE: peptide

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Ala	Cys	Asn	Thr	Ala	Thr	Cys	Val	Thr	His	Arg	Leu	Ala	Gly	Leu	Leu
1				5				10					15		

Ser Arg Ser Gly Gly Met Val Lys Ser Asn Phe Val Pro Thr Asn Val

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5 Gly Ser Lys Ala Phe

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(2) INFORMATION FOR SEQ ID NO:4:

10 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 37 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

15 (ii) MOLECULE TYPE: peptide

20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Ala Cys Asp Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15

25 Ser Arg Ser Gly Gly Val Val Lys Asn Asn Phe Val Pro Thr Asn Val  
20 25 30

30 Gly Ser Lys Ala Phe  
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(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 37 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: peptide

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Ser Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15

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Ser Arg Ser Gly Gly Val Val Lys Asp Asn Phe Val Pro Thr Asn Val  
20 25 30

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Gly Ser Lys Ala Phe  
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(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

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- (A) LENGTH: 37 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Ser Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15

Ser Arg Ser Gly Gly Val Val Lys Asp Asn Phe Val Pro Thr Asn Val  
20 25 30

Gly Ser Glu Ala Phe  
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(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 37 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Ala Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Asp Phe Leu  
1 5 10 15

Ser Arg Ser Gly Gly Val Gly Lys Asn Asn Phe Val Pro Thr Asn Val  
20 25 30

Gly Ser Lys Ala Phe  
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(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 37 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Gly Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15

Ser Arg Ser Gly Gly Met Val Lys Ser Asn Phe Val Pro Thr Asn Val  
20 25 30

Gly Ser Glu Ala Phe  
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(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 37 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

5 Ser Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15  
Ser Arg Ser Gly Gly Met Val Lys Ser Asn Phe Val Pro Thr Asp Val  
20 25 30  
10 Gly Ser Glu Ala Phe  
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(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 37 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

30 Ser Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15  
Ser Arg Ser Gly Gly Val Val Lys Ser Asn Phe Val Pro Thr Asn Val  
20 25 30



Gly Ser Gln Ala Phe

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(2) INFORMATION FOR SEQ ID NO:11:

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 37 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

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(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

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Ser Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15

Ser Arg Ser Gly Gly Val Val Lys Ser Asn Phe Val Pro Thr Asn Val  
20 25 30

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Gly Ser Glu Ala Phe

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(2) INFORMATION FOR SEQ ID NO:12:

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 37 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Ala Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Asp Phe Leu  
1 5 10 15

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Asn Arg Ser Gly Gly Met Gly Asn Ser Asn Phe Val Pro Thr Asn Val  
20 25 30

Gly Ala Lys Ala Phe  
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(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 37 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: peptide

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Ala Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Asp Phe Leu  
1 5 10 15

Ser Arg Ser Gly Gly Met Ala Lys Asn Asn Phe Val Pro Thr Asn Val

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Gly Ser Lys Ala Phe

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(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 52 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: peptide

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Tyr Arg Gln Ser Met Asn Asn Phe Gln Gly Leu Arg Ser Phe Gly Cys

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Arg Phe Gly Thr Cys Thr Val Gln Lys Leu Ala His Gln Ile Tyr Gln

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Phe Thr Asp Lys Asp Lys Asp Asn Val Ala Pro Arg Ser Lys Ile Ser

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Pro Gln Gly Tyr

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(2) INFORMATION FOR SEQ ID NO:15:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 50 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Tyr Arg Gln Ser Met Asn Gln Gly Ser Arg Ser Thr Gly Cys Arg Phe  
1 5 10 15  
Gly Thr Cys Thr Met Gln Lys Leu Ala His Gln Ile Tyr Gln Phe Thr  
20 25 30  
Asp Lys Asp Lys Asp Gly Met Ala Pro Arg Asn Lys Ile Ser Pro Gln  
35 40 45  
Gly Tyr  
50

(2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 37 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

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Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu  
1 5 10 15

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Val His Ser Ser Asn Asn Phe Gly Ala Ile Leu Ser Ser Thr Asn Val  
20 25 30

Gly Ser Asn Thr Tyr  
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15 (2) INFORMATION FOR SEQ ID NO:17:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 37 amino acids

(B) TYPE: amino acid

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(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

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Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu  
1 5 10 15

Val Arg Ser Ser Asn Asn Leu Gly Pro Val Leu Pro Pro Thr Asn Val  
20 25 30

Gly Ser Asn Thr Tyr

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(2) INFORMATION FOR SEQ ID NO:18:

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 31 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

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(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

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His Ala Thr Gln Arg Leu Ala Asn Phe Leu Val His Ser Ser Asn Asn  
1 5 10 15

Phe Gly Ala Ile Leu Ser Ser Thr Asn Val Gly Ser Asn Thr Tyr  
20 25 30

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(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 30 amino acids

(B) TYPE: amino acid

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(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

5      Ala Thr Gln Arg Leu Ala Asn Phe Leu Val Arg Ser Ser Asn Asn Leu  
      1                      5                      10                      15

      Gly Pro Val Leu Pro Pro Thr Asn Val Gly Ser Asn Thr Tyr  
                    20                      25                      30

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(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 25 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

25      Val Leu Gly Lys Leu Ser Gln Glu Leu His Lys Leu Gln Thr Tyr Pro  
      1                      5                      10                      15

      Arg Thr Asn Thr Gly Ser Asn Thr Tyr  
30                      20                      25

(2) INFORMATION FOR SEQ ID NO:21:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: peptide

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

Leu Gly Arg Leu Ser Gln Glu Leu His Arg Leu Gln Thr Tyr Pro Arg  
1 5 10 15

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Thr Asn Thr Gly Ser Asn Thr Tyr  
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(2) INFORMATION FOR SEQ ID NO:22:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: peptide

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:



Ala Thr Gln Arg Leu Ala Asn Glu Leu Val Arg Leu Gln Thr Tyr Pro  
 1 5 10 15

Arg Thr Asn Val Gly Ser Asn Thr Tyr  
 5 20 25

(2) INFORMATION FOR SEQ ID NO:23:

(i) SEQUENCE CHARACTERISTICS:  
 10 (A) LENGTH: 31 amino acids  
 (B) TYPE: amino acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

15 (ii) MOLECULE TYPE: peptide

20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

Thr Val Gln Lys Leu Ala His Gln Ile Tyr Gln Phe Thr Asp Lys Asp  
 1 5 10 15

25 Lys Asp Asn Val Ala Pro Arg Ser Lys Ile Ser Pro Gln Gly Tyr  
 20 25 30